

International Journal of Forestry and Crop Improvement Volume 4 | Issue 2 | December, 2013 | 49-53



Research Article

Response of potato on water management, weed management and integrated nutrient management

CHANDRESH KUMAR CHANDRAKAR, G.K. SHRIVASTAVA, DHANANJAY SHARMA, ASHISH KUMAR CHANDRAKAR and CHETAN DEWANGAN

ABSTRACT : A field experiment was conducted at IGKV, Raipur (C.G) during *Rabi* 2010-11 and 2011-12, to evaluate the suitable irrigation schedule, weed management and nutrient management. The soil of experimental site was clay loam in texture, neutral in soil reaction. The climate of the region is sub humid with an average annual rainfall of 1200-1400 mm. Results revealed that minimum total weed density and total weed dry weight was found under drip irrigation (100 % of OPE) at all stages during both the years and on mean basis, yield attributes and total tuber yield of potato crop was significantly maximum under drip irrigation (125 % of OPE) as compared to furrow irrigation. The herbicide metribuzin (500 g a.i. ha⁻¹PE) proved better among other weed management practices recorded minimum total weed density and total weed dry weight was found at all stages and the maximum yield attributes and total tuber yield of potato crop. Application of 75% N inorganic fertilizer + 25 % N organic (Poultry manure) + PSB + *Azotobacter* was found non significant to weed control while produced significantly highest yield attributes and total tuber yield.

KEY WORDS: Drip irrigation, Weed management, Integrated nutrient management, Potato

How to cite this Article : Chandrakar, Chandresh Kumar, Shrivastava, GK., Sharma, Dhananjay, Chandrakar, Ashish Kumar and Dewangan, Chentan (2013). Response of potato (*Solanum tuberosum*) on water management, weed management and integrated nutrient management. *Internat. J. Forestry & Crop Improv.*, **4**(2): 49-53.

Article Chronical : Received : 12.09.2013; Revised : 01.11.2013; Accepted : 15.11.2013

MEMBERS OF RESEARCH FORUM

Address of the Correspondence : CHANDRESH KUMAR CHANDRAKAR, Krishi Vigyan Kendra (I.G.K.V.), DHAMTARI (C.G.) INDIA

Address of the Coopted Authors: G.K. SHRIVASTAVA, Department of Agronomy, Indira Gandhi Krishi Vishwavidyalaya, RAIPUR (C.G.) INDIA

DHANANJAY SHARMA, ASHISH KUMAR CHANDRAKAR and CHETAN DEWANGAN, Department of Agronomy, Indira Gandhi Krishi Vishwavidyalaya, RAIPUR (C.G.) INDIA